

WHAT IS CLAIMED IS:

- 1        1.        A jig for inspecting a device provided with at least a radio frequency  
2        signal terminal and an earth terminal, the jig comprising:  
3                a metal block, formed with a through hole extending in a first  
4        direction; and  
5                a contact probe, inserted into the through hole, the contact probe  
6        comprising:  
7                a metal pipe, extending in the first direction;  
8                a plunger, retractably projected from one longitudinal end of the  
9        metal pipe to be brought into contact with the radio frequency signal terminal;  
10       and  
11               at least two dielectric ring members, provided on an outer periphery  
12       of the metal pipe, and fitted with the through hole while forming a gap between  
13       the outer periphery of the metal pipe and an inner wall of the through hole, in  
14       order to form a coaxial path in which the contact probe serves as a core  
15       conductor and the metal block serves as an external conductor,  
16               wherein a diameter of the through hole and a diameter of the  
17       dielectric ring members are selected such that the coaxial path has a  
18       predetermined impedance relative to the radio signal frequency terminal.
- 1       2.       The jig as set forth in claim 1, wherein a dimension in the first  
2       direction of each of the dielectric ring members is sufficiently smaller than a  
3       length of the metal pipe in the first direction.

1       3.       The jig as set forth in claim 1, wherein the dielectric ring members are  
2       comprised of a resin material and integrally molded with the metal pipe.

1       4.       The jig as set forth in claim 1, further comprising a conductive rubber  
2       sheet, in which metal filaments are arranged so as to extend in the first  
3       direction, and on which the earth terminal of the device to be inspected is  
4       brought into contact, so that the earth terminal and the metal block are  
5       electrically connected via the metal filaments.

1       5.       A contact probe, inserted into a through hole formed in a metal block  
2       of a jig for inspecting a device provided with at least a radio frequency signal  
3       terminal and an earth terminal, the contact probe comprising:

4               a metal pipe;

5               a plunger, retractably projected from one longitudinal end of the  
6       metal pipe to be brought into contact with the radio frequency signal terminal;  
7       and

8               at least two dielectric ring members, provided on an outer periphery  
9       of the metal pipe, and fitted with the through hole while forming a gap between  
10      the outer periphery of the metal pipe and an inner wall of the through hole, in  
11      order to form a coaxial path in which the contact probe serves as a core  
12      conductor and the metal block serves as an external conductor,

13              wherein a diameter of the dielectric ring members is selected such  
14      that the coaxial path has a predetermined impedance relative to the radio  
15      signal frequency terminal, based on a diameter of the through hole.